Fig. 1

```
   1 ttttttttttgag ATG GAG TTT TCG CTC TTG TTG CCC AGG CTG GAG TGC AAT GGC GCA ATC  62
   1               M   E   F   S   L   L   L   P   R   L   E   C   N   G   A   I   16

  63 TCA GCT CAC CGC AAC CTC CGC CTC CCG GGT TCA AGC GAT TCT CCT GCC TCA GCC TCC CCA 122
  17 S   A   H   R   N   L   R   L   P   G   S   S   D   S   P   A   S   A   S   P  36

 123 GTA GCT GGG ATT ACA GGC ATG TGC ACC CAC GCT CGG CTA ATT TTG TAT TTT TTT TTA GTA 182
  37 V   A   G   I   T   G   M   C   T   H   A   R   L   I   L   Y   F   F   L   V  56

 183 GAG ATG GAG TTT CTC CAT GTT GGT CAG GCT GGT CTC GAA CTC CCG ACC TCA GAT GAT CCC 242
  57 E   M   E   F   L   H   V   G   Q   A   G   L   E   L   P   T   S   D   D   P  76

 243 TCC GTC TCG GCC TCC CAA AGT GCT AGA TAC AGG ACT GGC CAC CAT GCC CGG CTC TGC CTG 302
  77 S   V   S   A   S   Q   S   A   R   Y   R   T   G   H   H   A   R   L   C   L  96

 303 GCT AAT TTT TGT GGT AGA AAC AGG GTT TCA CTG ATG TGC CCA AGC TGG TCT CCT GAG CTC 362
  97 A   N   F   C   G   R   N   R   V   S   L   M   C   P   S   W   S   P   E   L  116

 363 AAG CAG TCC ACC TGC CTC AGC CTC CCA AAG TGC TGG GAT TAC AGG CGT GCA GCC GTG CCT 422
 117 K   Q   S   T   C   L   S   L   P   K   C   W   D   Y   R   R   A   A   V   P  136

 423 GGC CTT TTT ATT TTA TTT TTT TTA AGA CAC AGG TGT CCC ACT CTT ACC CAG GAT GAA GTG 482
 137 G   L   F   I   L   F   F   L   R   H   R   C   P   T   L   T   Q   D   E   V  156

 483 CAG TGG TGT GAT CAC AGC TCA CTG CAG CCT TCA ACT CCT GAG ATC AAG CAT CCT CCT GCC 542
 157 Q   W   C   D   H   S   S   L   Q   P   S   T   P   E   I   K   H   P   P   A  176

 543 TCA GCC TCC CAA GTA GCT GGG ACC AAA GAC ATG CAC CAC TAC ACC TGG CTA ATT TTT ATT 602
 177 S   A   S   Q   V   A   G   T   K   D   M   H   H   Y   T   W   L   I   F   I  196

 603 TTT ATT TTT AAT TTT TTG AGA CAG AGT CTC AAC TCT GTC ACC CAG GCT GGA GTG CAG TGG 662
 197 F   I   F   N   F   L   R   Q   S   L   N   S   V   T   Q   A   G   V   Q   W  216

 663 CGC AAT CTT GGC TCA CTG CAA CCT CTG CCT CCC GGG TTC AAG TTA TTC TCC TGC CCC AGC 722
 217 R   N   L   G   S   L   Q   P   L   P   P   G   F   K   L   F   S   C   P   S  236

 723 CTC CTG AGT AGC TGG GAC TAC AGG CGC CCA CCA CGC CTA GCT AAT TTT TTT GTA TTT TTA 782
 237 L   L   S   S   W   D   Y   R   R   P   P   R   L   A   N   F   F   V   F   L  256

 783 GTA GAG ATG GGG TTC ACC ATG TTC GCC AGG TTG ATC TTG ATC TCT GGA CCT TGT GAT CTG 842
 257 V   E   M   G   F   T   M   F   A   R   L   I   L   I   S   G   P   C   D   L  276

 843 CCT GCC TCG GCC TCC CAA AGT GCT GGG ATT ACA GGC GTG AGC CAC CAC GCC CGG CTT ATT 902
 277 P   A   S   A   S   Q   S   A   G   I   T   G   V   S   H   H   A   R   L   I  296

 903 TTT AAT TTT TGT TTG TTT GAA ATG GAA TCT CAC TCT GTT ACC CAG GCT GGA GTG CAA TGG 962
 297 F   N   F   C   L   F   E   M   E   S   H   S   V   T   Q   A   G   V   Q   M  316

 963 CCA AAT CTC GGC TCA CTG CAA CCT CTG CCT CCC GGG CTC AAG CGA TTC TCC TGT CTC AGC 1022
 317 P   N   L   G   S   L   Q   P   L   P   P   G   L   Q   R   F   S   C   L   S  336

1023 CTC CCA AGC AGC TGG GAT TAC GGG CAC CTG CCA CCA CAC CCC GCT AAT TTT TGT ATT TTC 1082
 337 L   P   S   S   W   D   Y   G   H   L   P   P   H   P   A   N   F   C   I   F  356

1083 ATT AGA GGC GGG GTT TCA CCA TAT TTG TCA GGC TGG TCT CAA ACT CCT GAC CTC AGG tgac 1143
 357 I   R   G   G   V   S   P   Y   L   S   G   W   S   Q   T   P   D   L   R      375

1144 ccacctgcctcagccttccaaagtgctgggattacaggcgtgagccacctcacccagccggctaatttagataaaaaaat 1223

1224 atgtagcaatgggggtcttgctatgttgcccaggctggtctcaaacttctggcttcatgcaatccttccaaatgagcca 1303

1304 caacacccagccagtcacatttttttaaacagttacatctttatttagtatactagaaagtaatacaataaacatgtcaa 1383

1384 acctgcaaattcagtagtaacagagttcttttataacttttaaacaaagctttagagca                       1442
```

Title: PREFERRED SEGMENTS OF NEURAL THREAD PROTEIN AND METHODS OF USING THE SAME
Inventor(s): Judith Fitzpatrick et al.
Appl. No.: 09/697,590

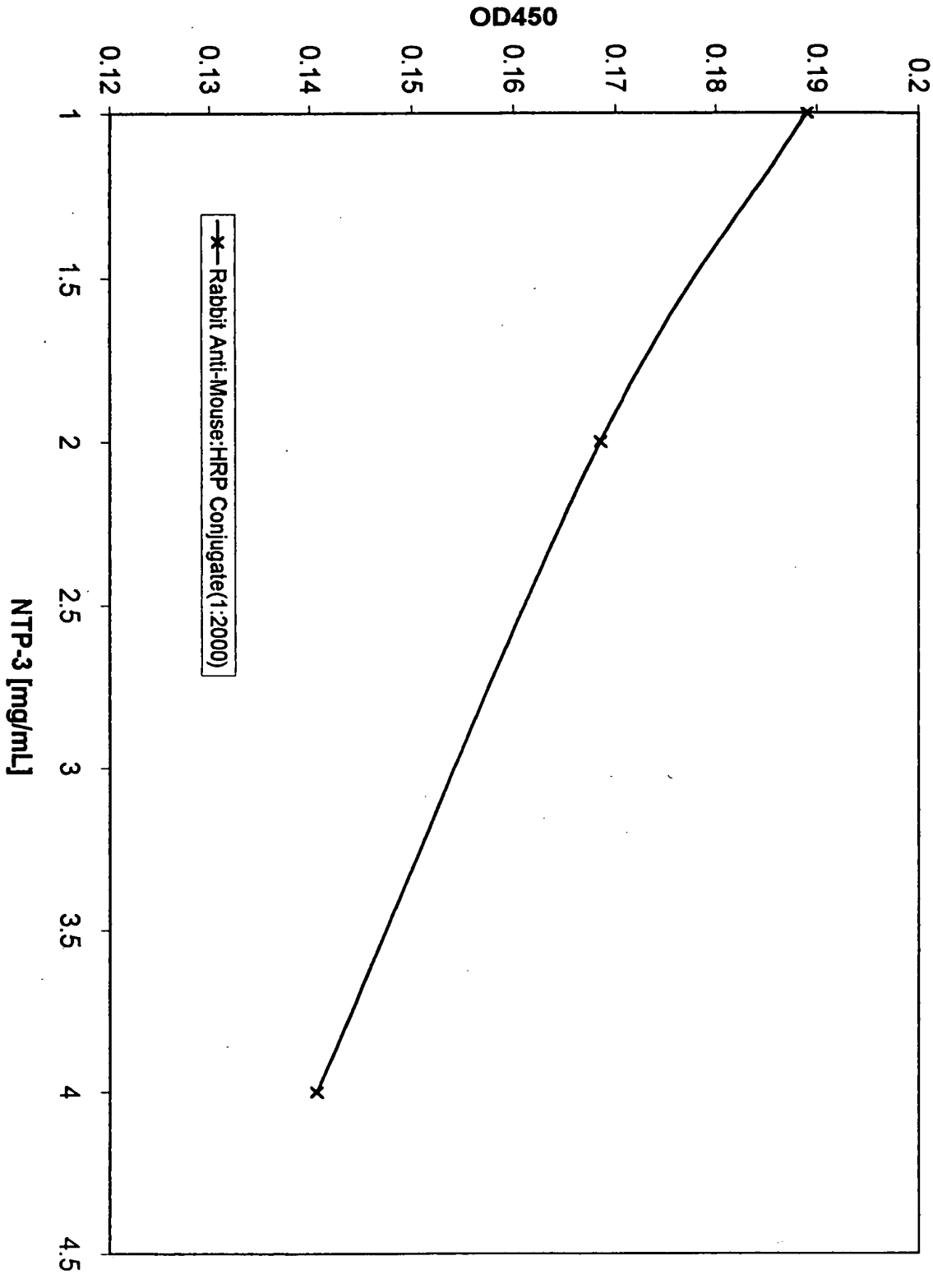
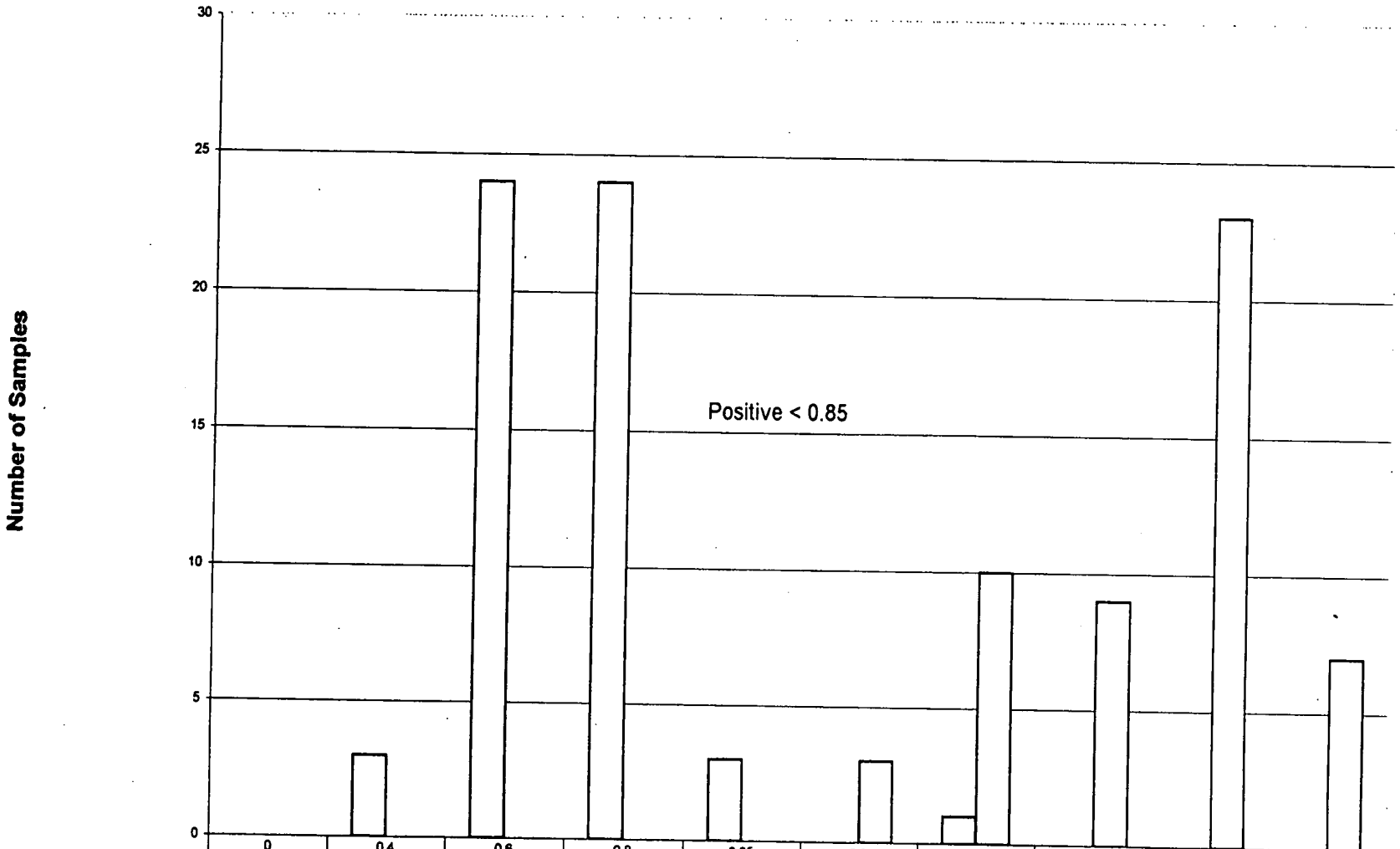

OD450
0.2
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
1
1.5
2
2.5
3
3.5
4
4.5
NTP-3 [mg/mL]
Rabbit Anti-Mouse:HRP Conjugate(1:2000)
NTP-3 Inhibition of Conjugate Binding to NTP-3:RGG (20:1) Coated Microtiter Plate

FIGURE 2

FIGURE 3



	0	0.4	0.6	0.8	0.85	0.9	1	1.2	1.6	10
Positive Clinical Samples	0	3	24	24	3	0	1	0	0	0
Negative Clinical Samples	0	0	0	0	0	0	10	9	23	7

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FIGURE 4

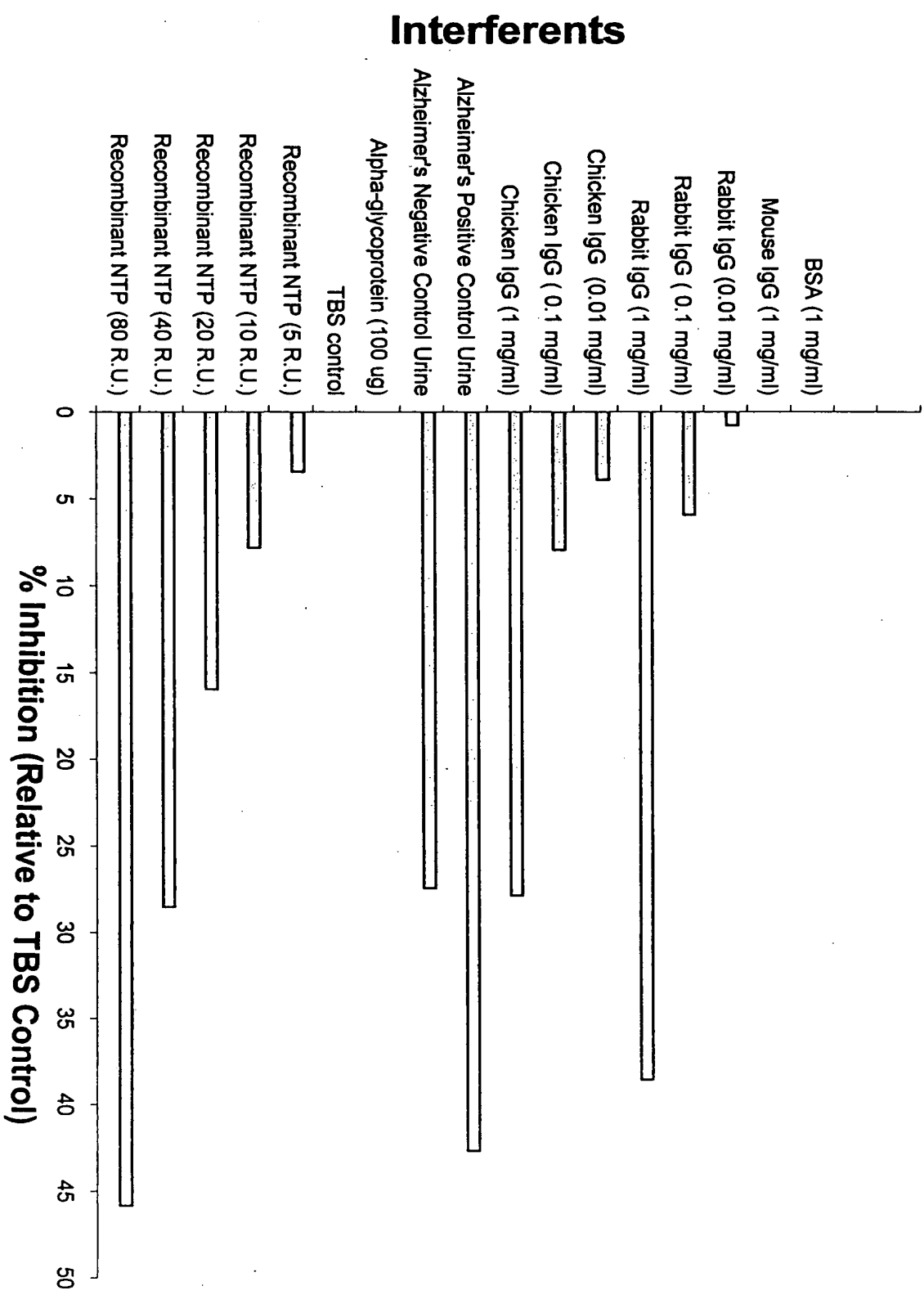
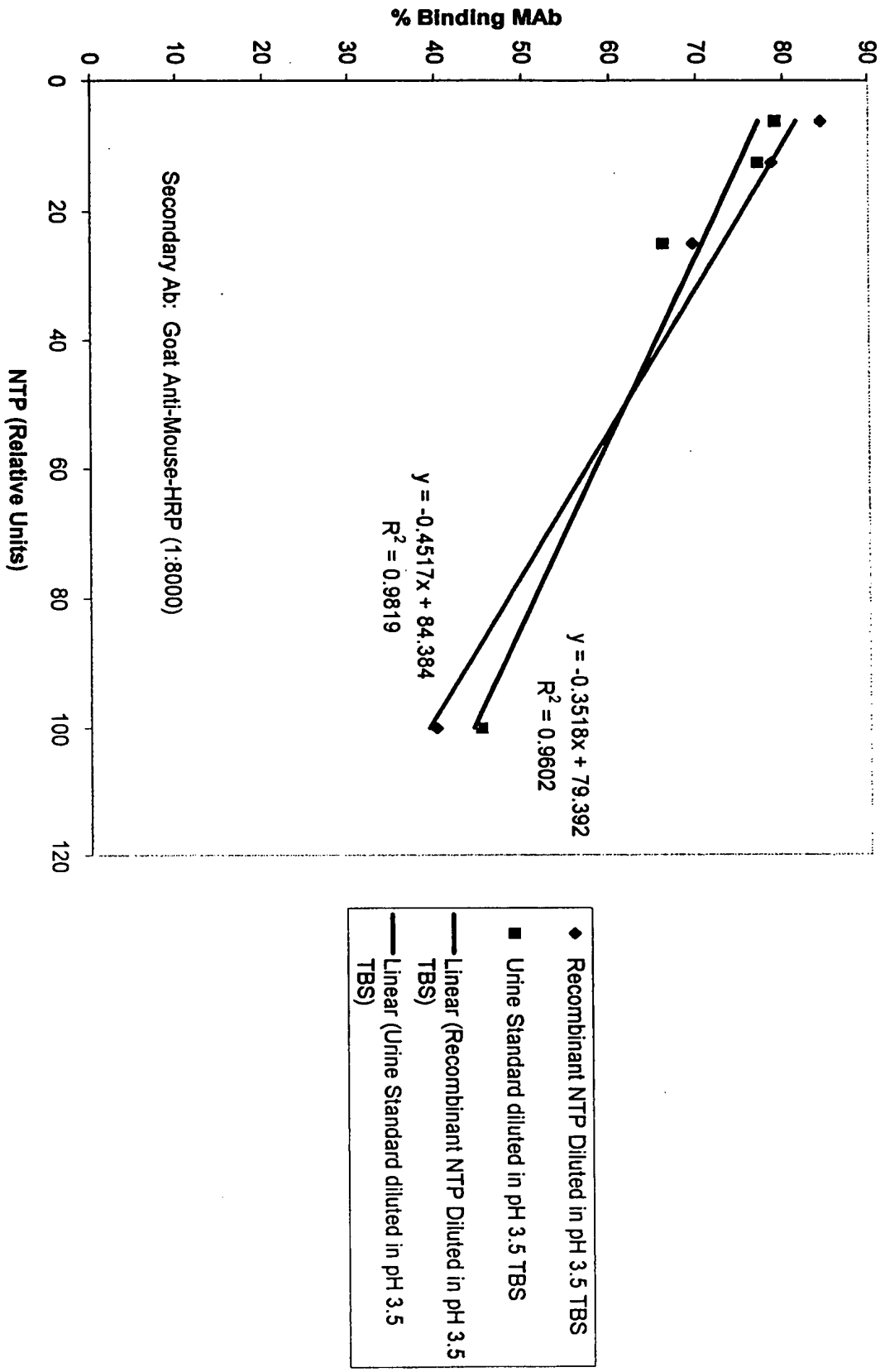


FIGURE 5


AD Competitive ELISA on NTP-3: RGG (30:1) Coated Mictrotiter Plate
% Binding MAb
NTP (Relative Units)
Secondary Ab: Goat Anti-Mouse-HRP (1:8000)
y = -0.3518x + 79.392
R2 = 0.9602
y = -0.4517x + 84.384
R2 = 0.9819
Recombinant NTP Diluted in pH 3.5 TBS
Urine Standard diluted in pH 3.5 TBS
Linear (Recombinant NTP Diluted in pH 3.5 TBS)
Linear (Urine Standard diluted in pH 3.5 TBS)

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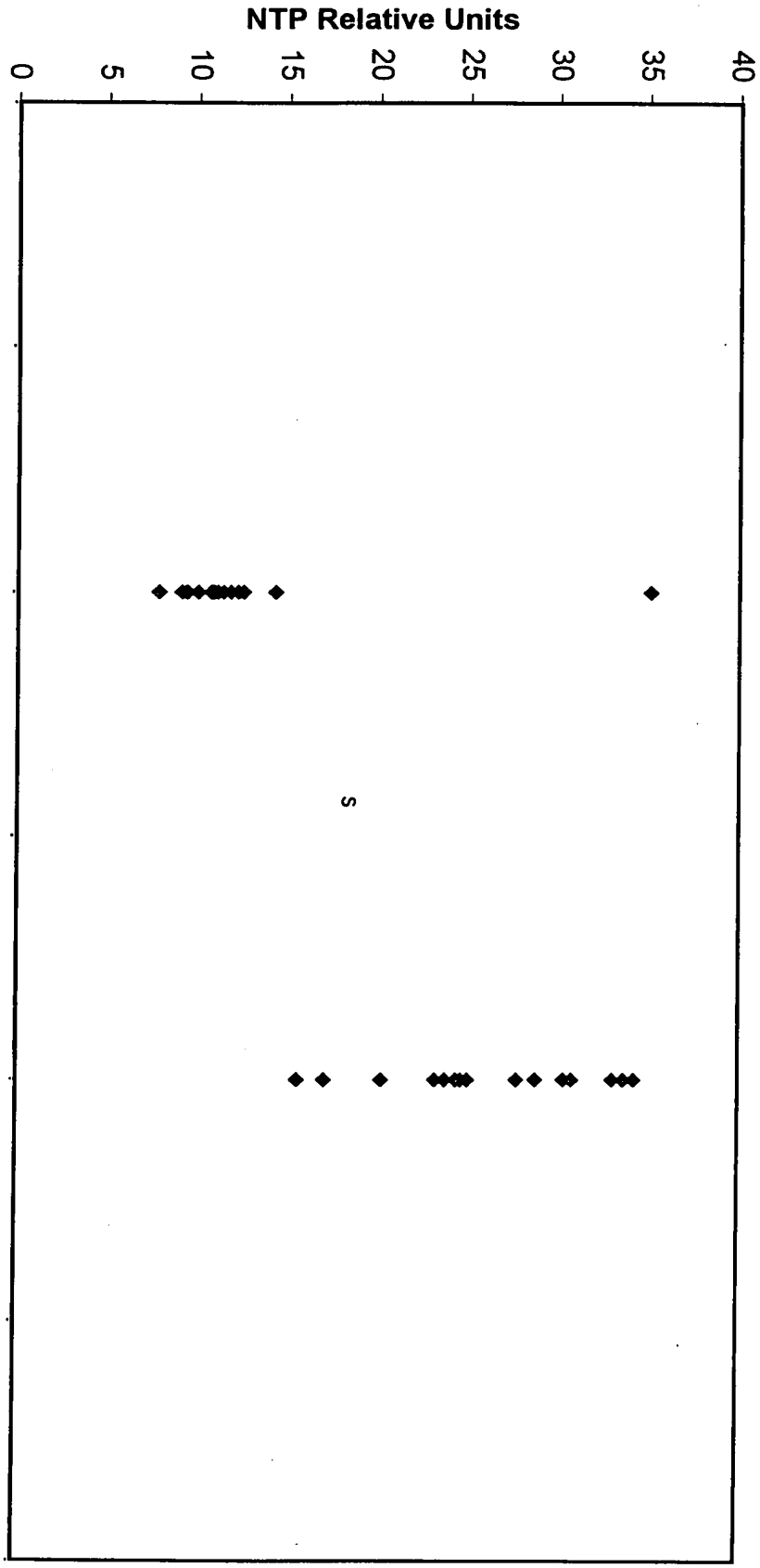

Figure 6: Competitive Affinity Assay in ELISA Format
Using a Harlil Peptide - Antibody Conjugate